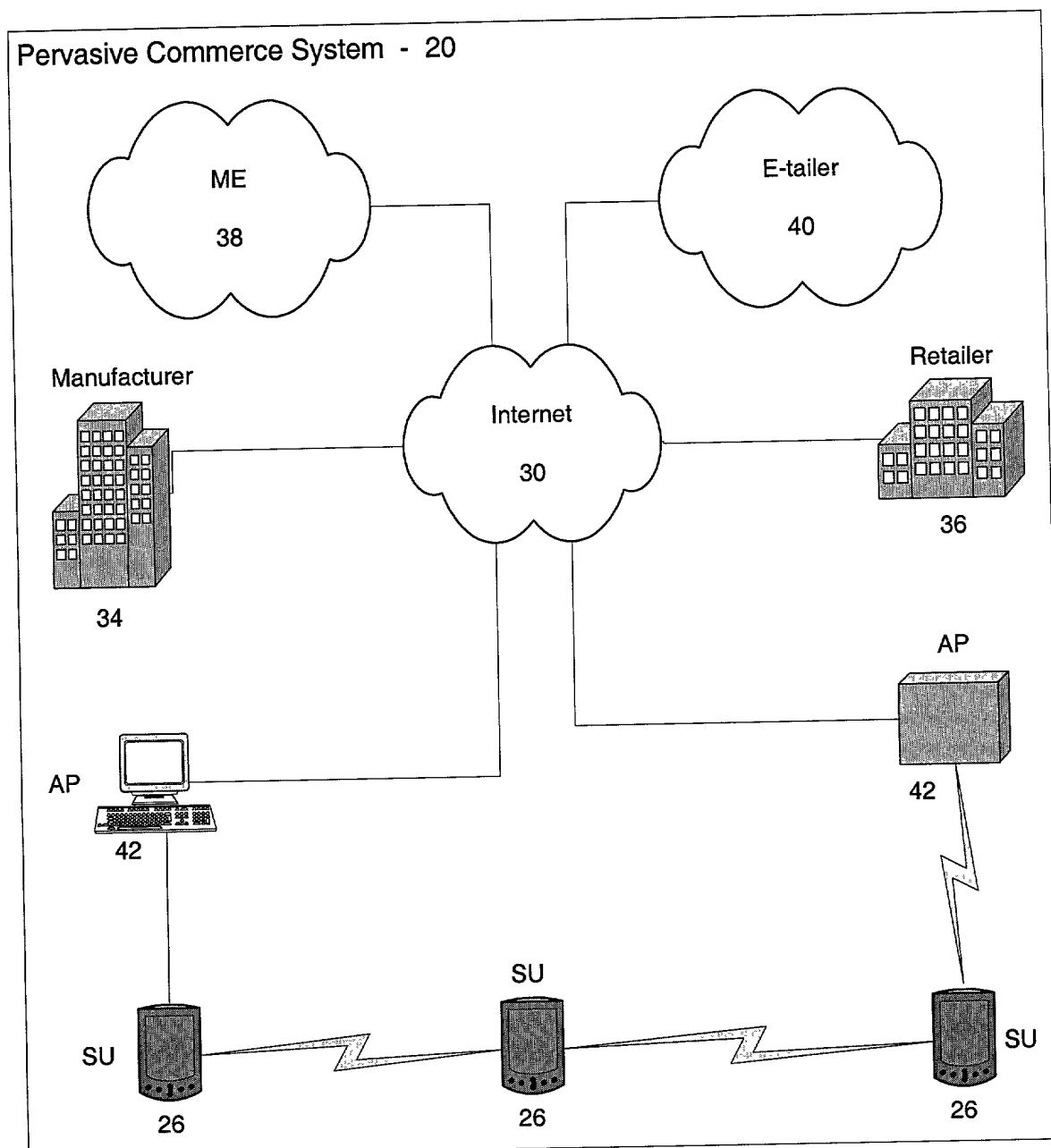


## FIGURE 1 - Pervasive Commerce System



## FIGURE 2 - Generic Case Structure

<b>Item Data Block (“I” Block)</b>	
<b>Case Information</b>	ID, version, etc., for the entire case.
<b>Link Information</b>	Relationship to other cases.
<b>Item Information</b>	ID, name, description, etc., for the item.
<b>ME Public Key</b>	Case key or ME key version, used for encryption and whose private key peer is used in “I” and “O” Block signatures.
<b>Distributor Public Key</b>	Assigned to or received from Distributor; private key is used in “D” Block signature.
<b>Block Signature</b>	ME signature of “I” Block

<b>Object Block (“O” Block)</b>	
<b>Object Information</b>	ID, type, description, encoding, size, etc., for the contained digital object.
<b>Object</b>	Image, music, digital asset, etc.
<b>Block Signature</b>	ME signature of “O” Block (via private key peer to ME Public Key).

<b>Distributor Data Block (“D” Block)</b>	
<b>Distributor Information</b>	ID, name, information, etc., for Distributor.
<b>Item Information</b>	Encrypted wholesale price, etc., of item.
<b>Item Options</b>	Selectable features and options of item.
<b>Mutation Rules</b>	Controlling application behavior for case mutation (e.g., expiration date).
<b>Passer Public Key</b>	Assigned to or received from Passer, whose private peer is used in “P” Block signature.
<b>Block Signature</b>	Distributor signature of “D” Block (via private key peer to Distributor Public Key).

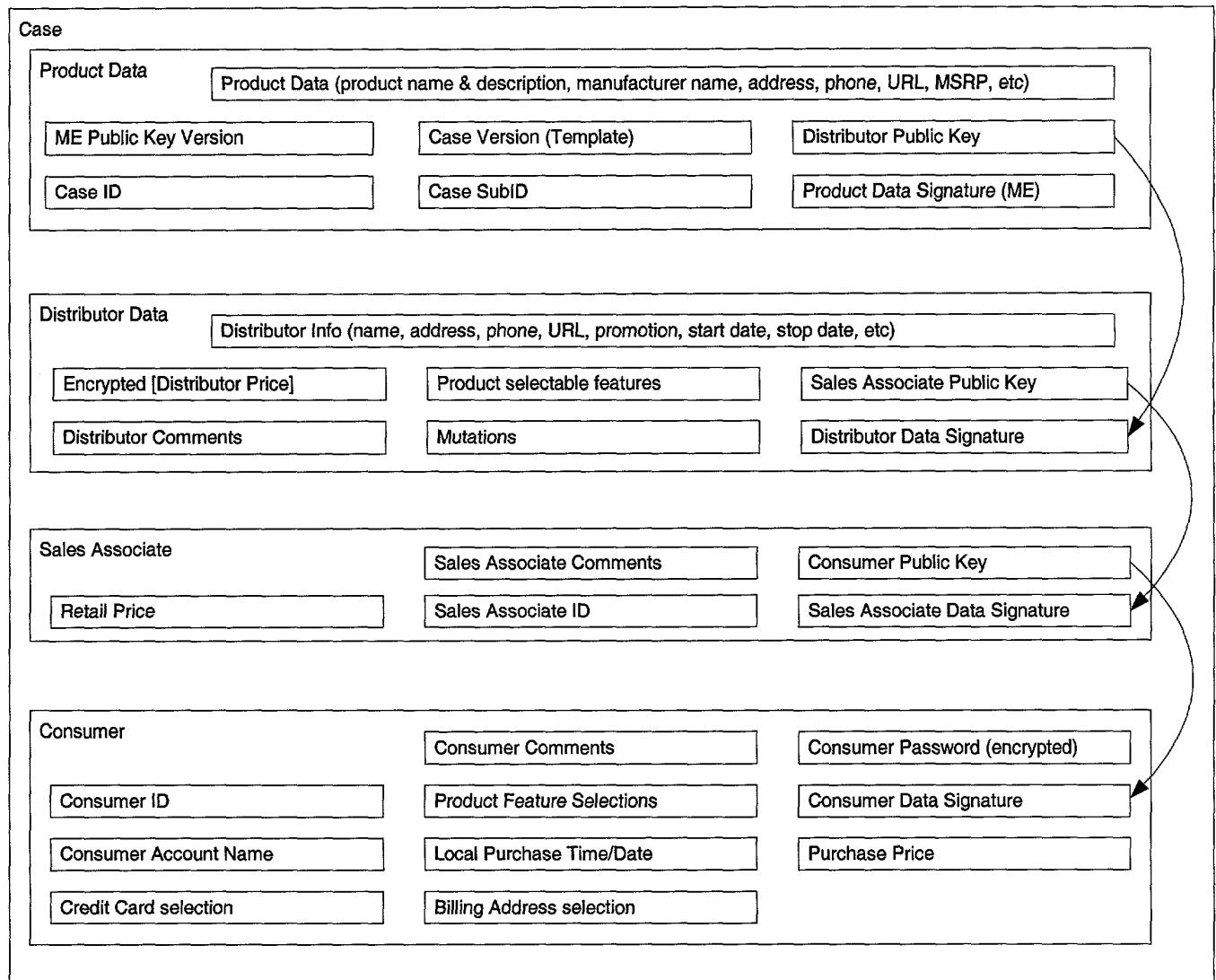
  

<b>Passer Data Block (“P” Block)</b>	
<b>Passer Information</b>	ID, name, etc., of Passer.
<b>Item Information</b>	Sales price, comments, etc., about item.
<b>Receiver Public Key</b>	Assigned to or received from Receiver.
<b>Block Signature</b>	Passer signature of “P” Block (via private key peer to Passer Public Key).

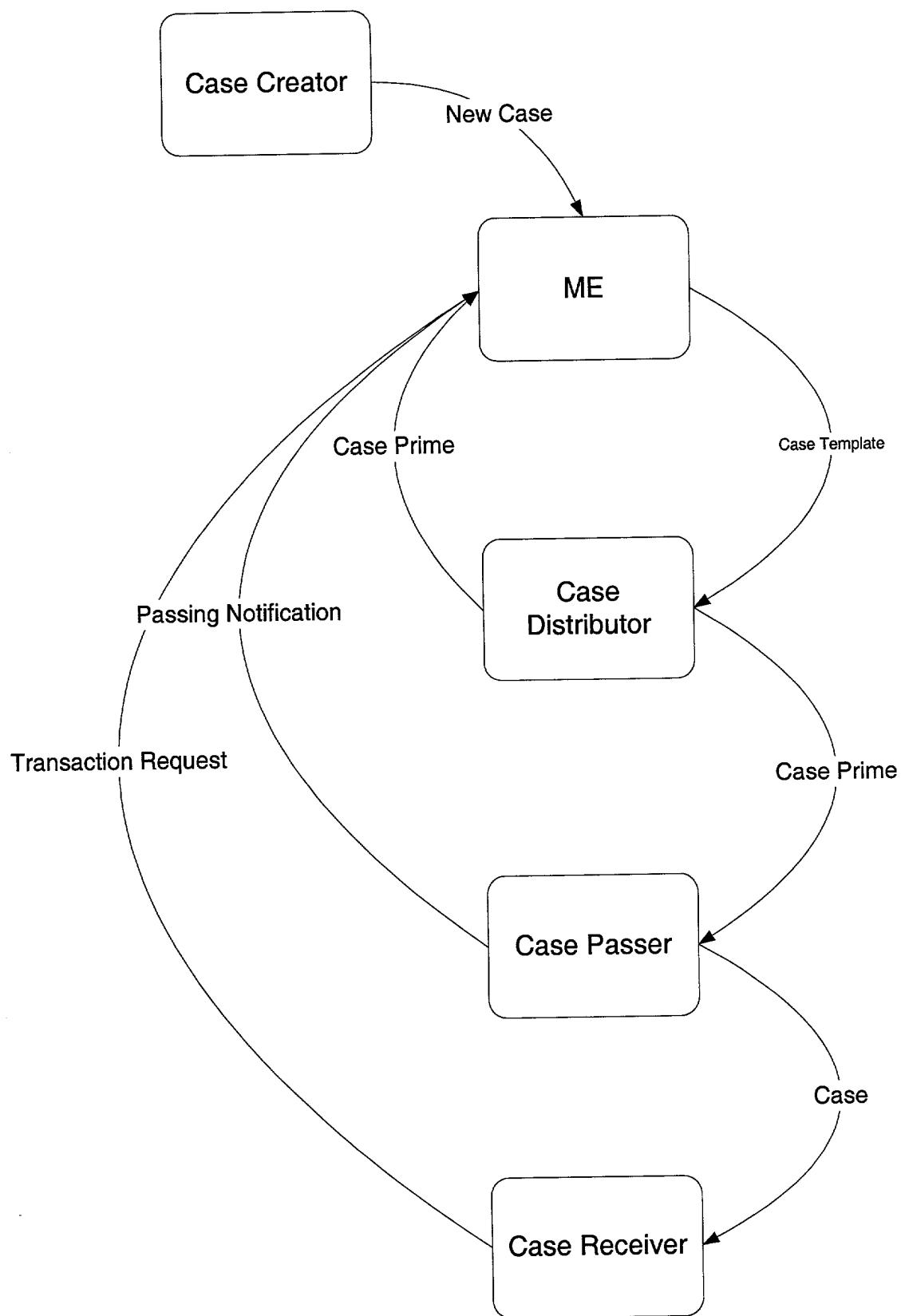
  

<b>Receiver Data Block (“R” Block)</b>	
<b>Receiver Information</b>	ID, name, etc., of Receiver.
<b>Block Signature</b>	Receiver signature of “R” Block (optional).

### FIGURE 3 - Pervasive Commerce Case Layout



**FIGURE 4 – Generic Case Flow**



## FIGURE 5 - New Case Template Layout

Case

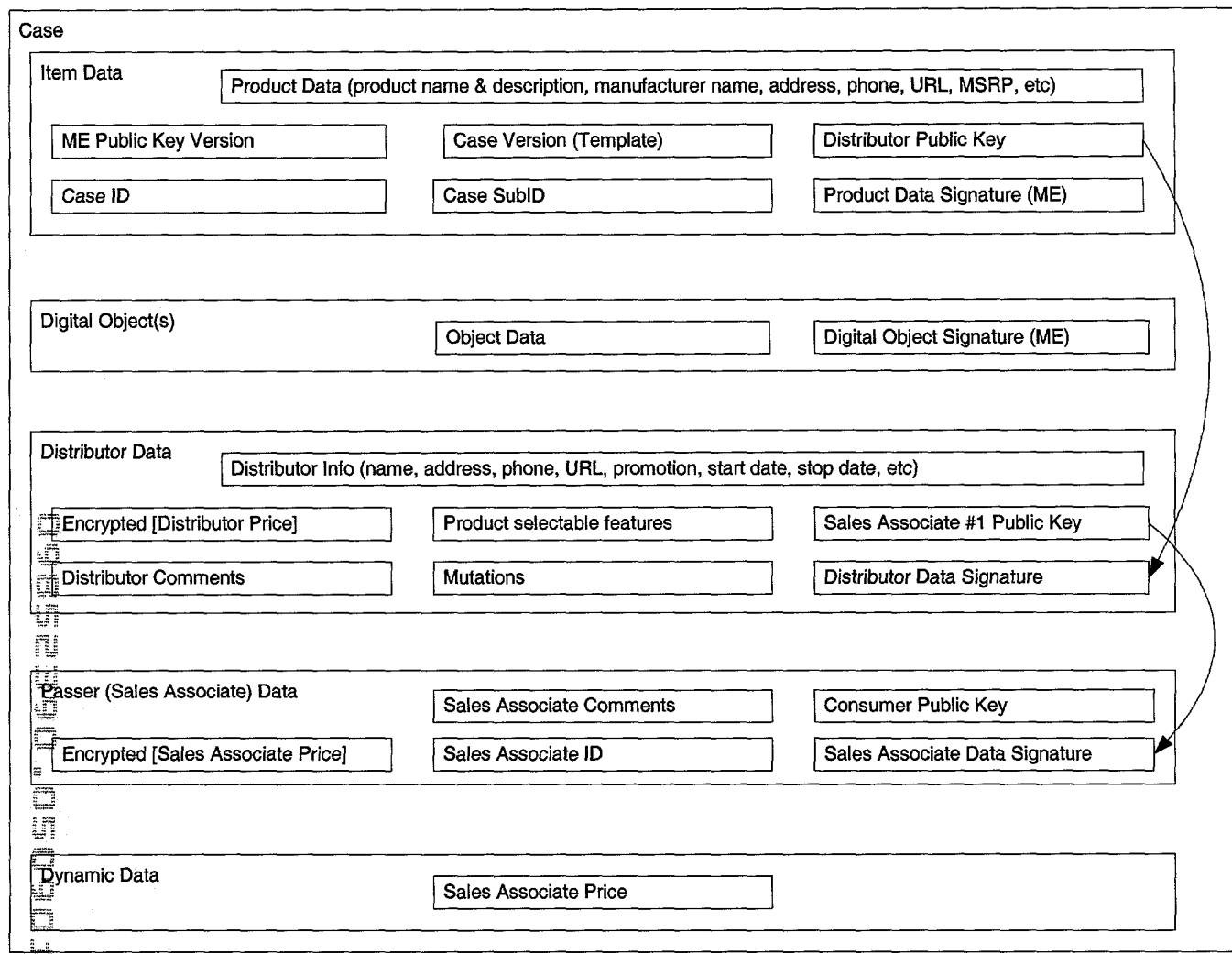
Item Data	Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)		
ME Public Key Version	Case Version (Template)	Distributor Public Key	
Case ID	Case SubID	Product Data Signature (ME)	
Dynamic Data			
Product Feature Selection Choices			

## FIGURE 6 - Case Prime Layout

Case

Item Data	Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)		
ME Public Key Version	Case Version (Template)	Distributor Public Key	
Case ID	Case SubID	Product Data Signature (ME)	
Digital Object(s)	Object Data	Digital Object Signature (ME)	
Distributor Data	Distributor Info (name, address, phone, URL, promotion, start date, stop date, etc)		
Encrypted [Distributor Price]	Product selectable features	Sales Associate Public Key	
Distributor Comments	Mutations	Distributor Data Signature	
Dynamic Data	Distributor Price		

## FIGURE 7 - Passed Case Layout



## FIGURE 8 - Complete Case Layout

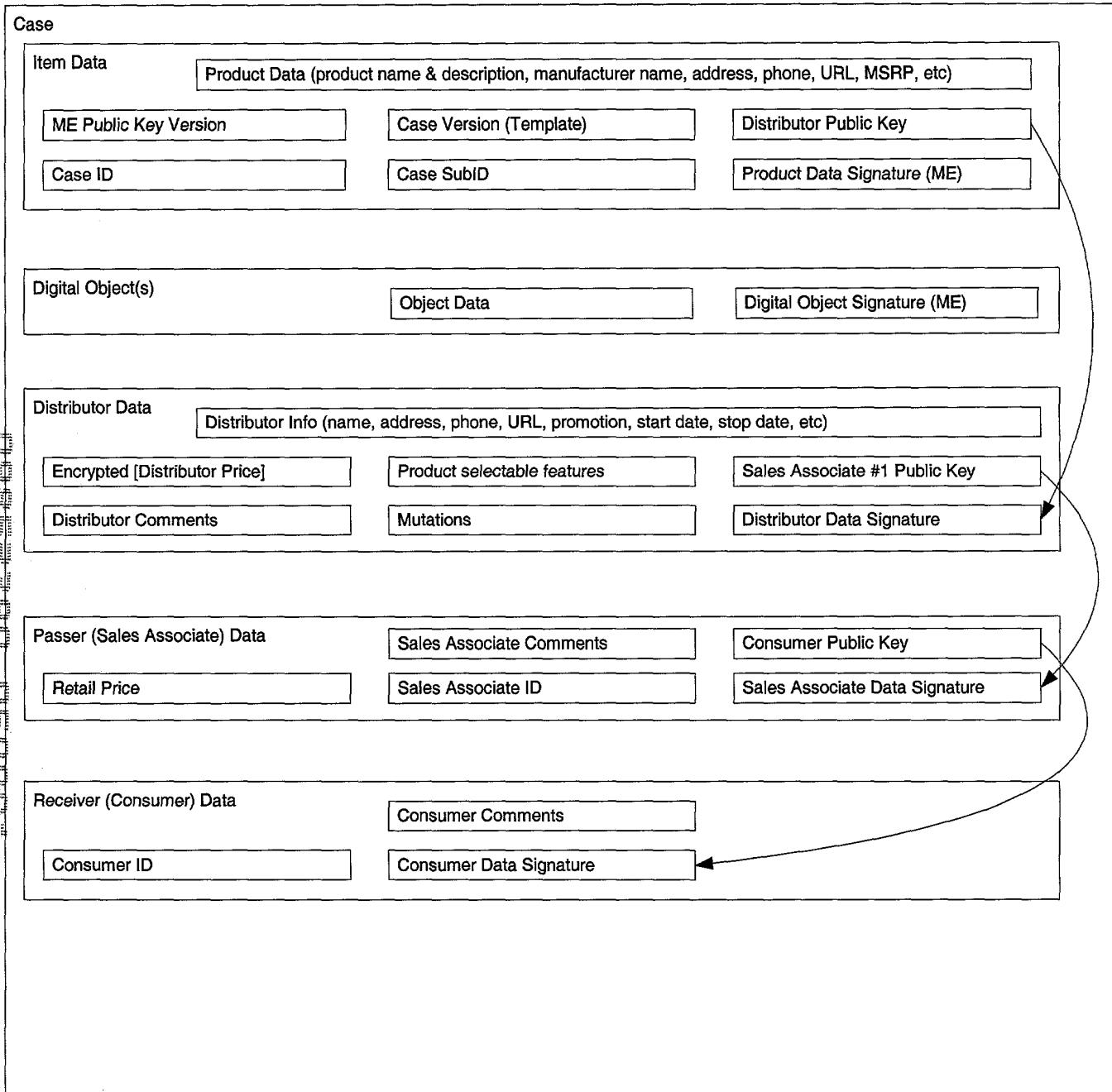
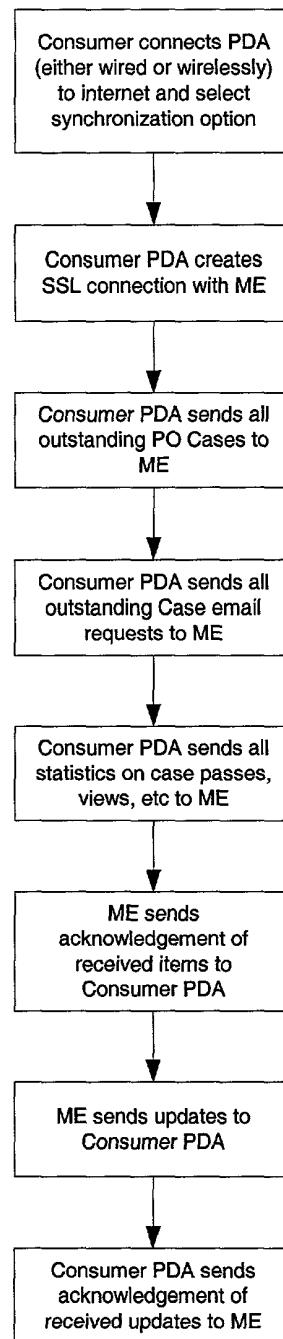
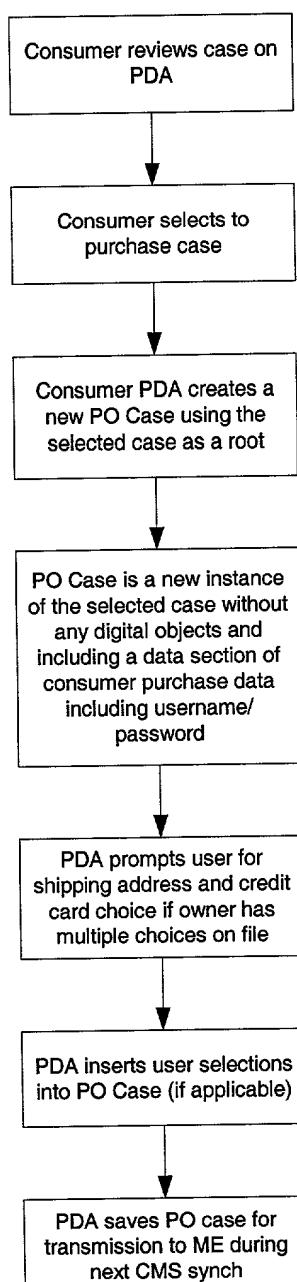


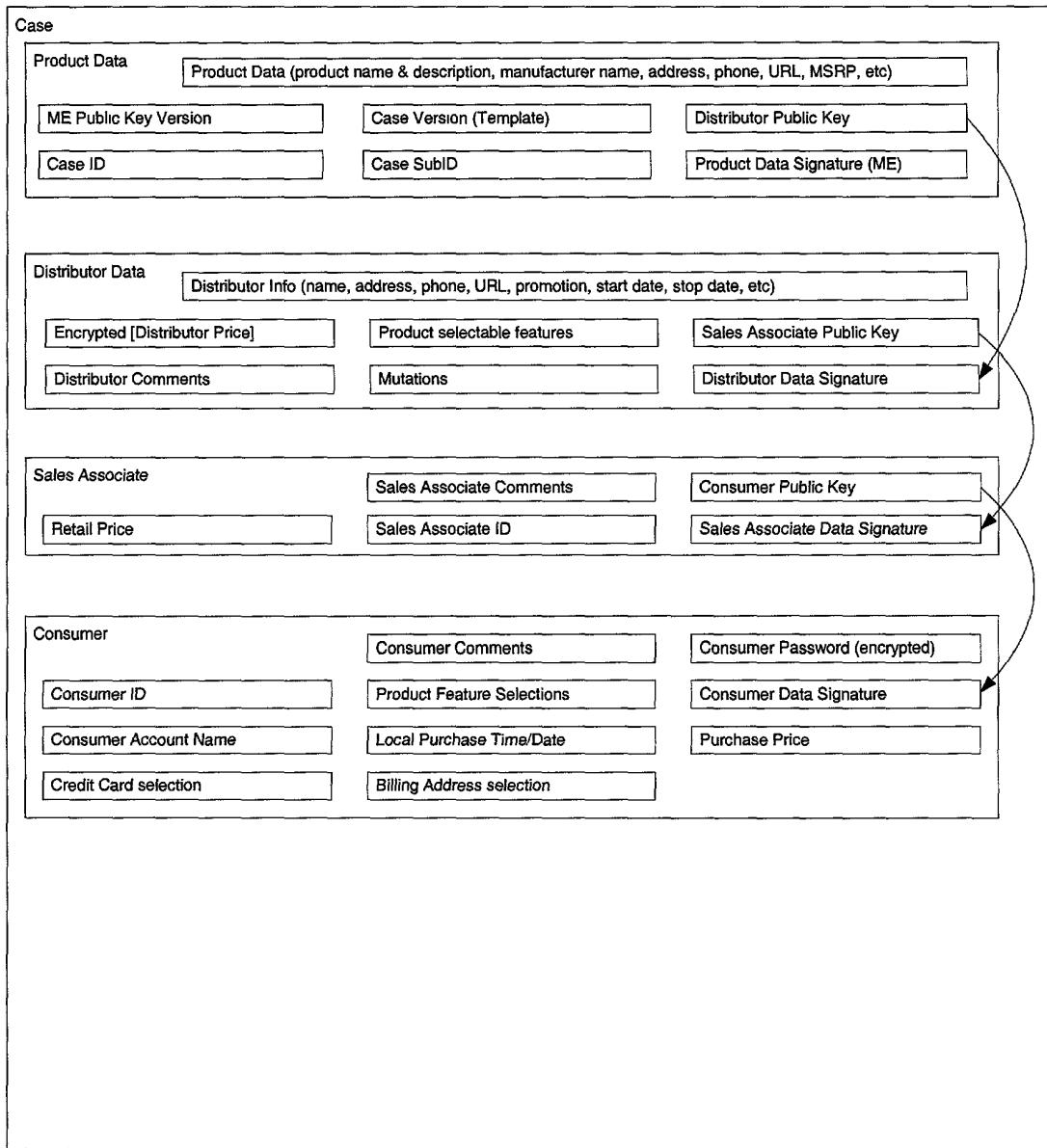
FIGURE 9 - Consumer Synchronization of PDA with ME



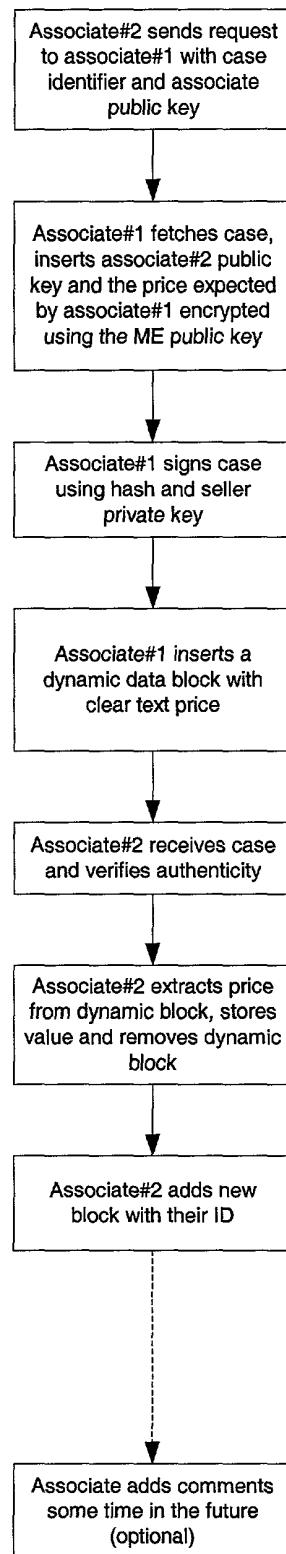
**FIGURE 10 - Consumer Makes Case-Based Purchase**



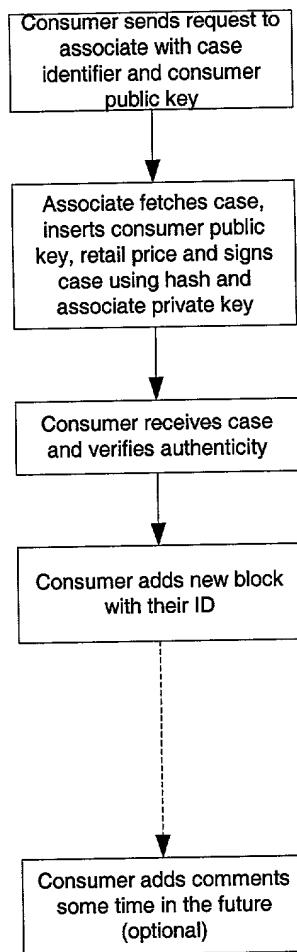
## FIGURE 11 - Purchase Request Case Layout



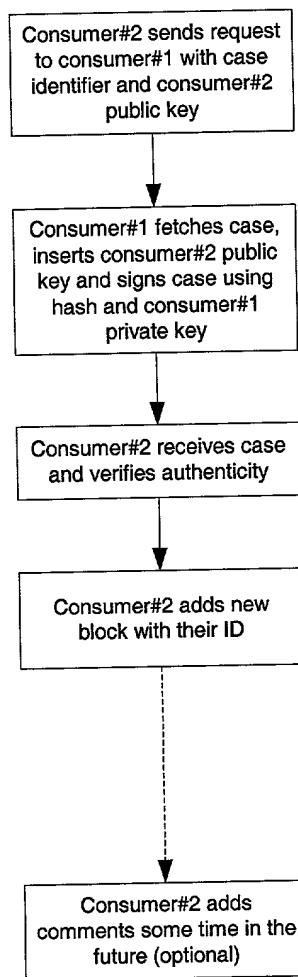
**FIGURE 12 - Sales Associate Passes Case to Sales Associate**



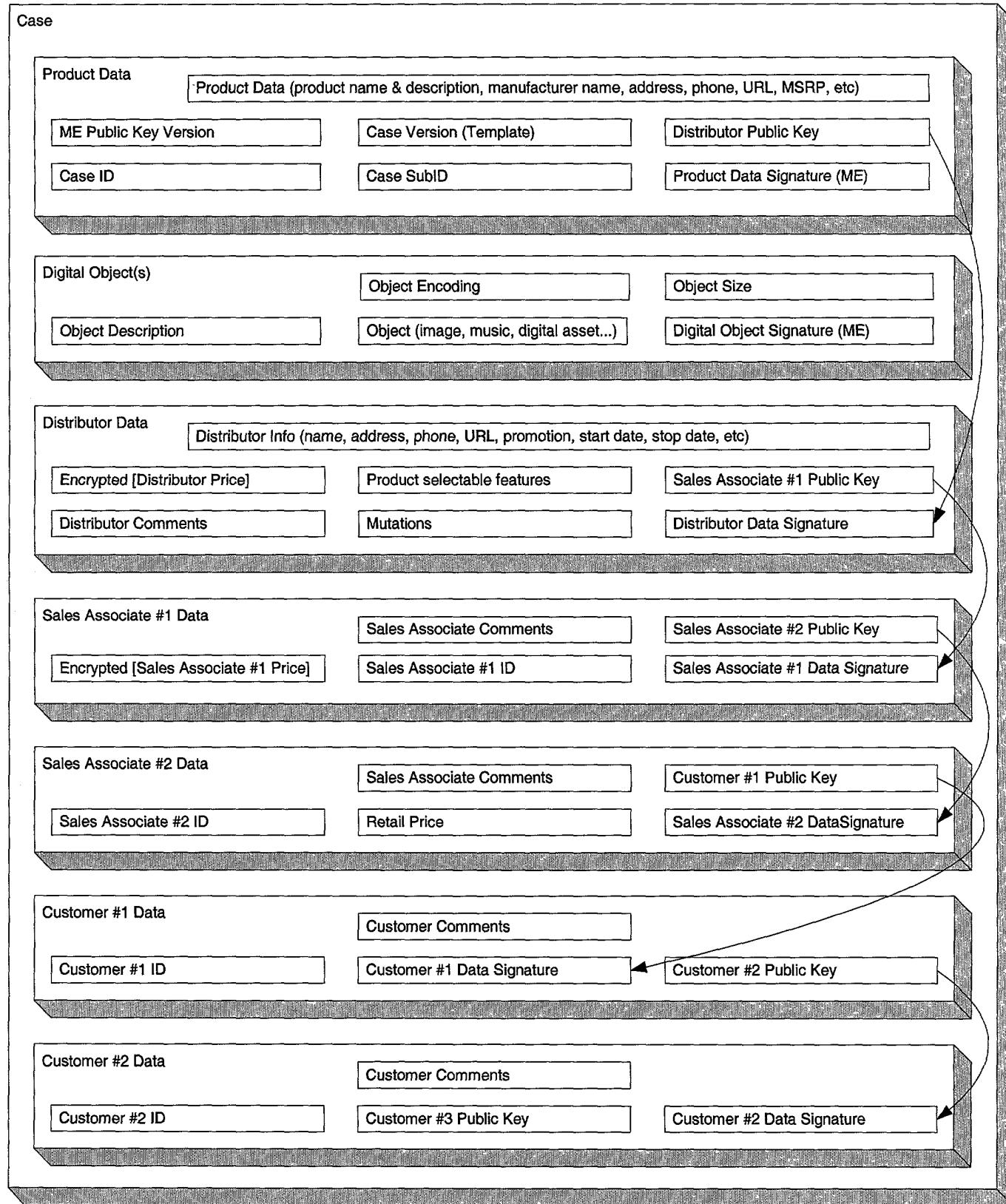
## FIGURE 13 - Sales Associate Passes Case to Consumer

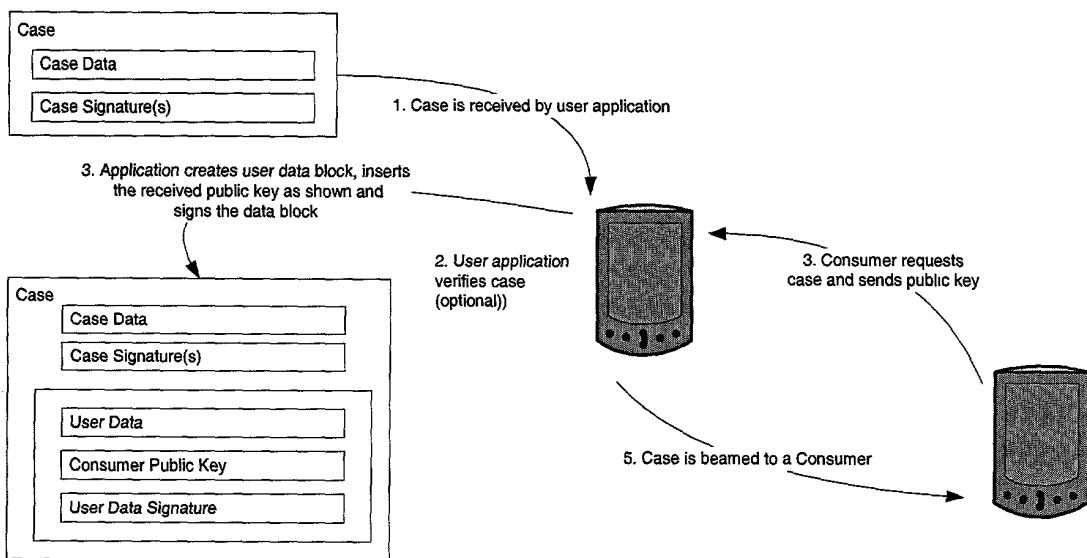


**FIGURE 14 - Consumer Passes Case to Consumer**

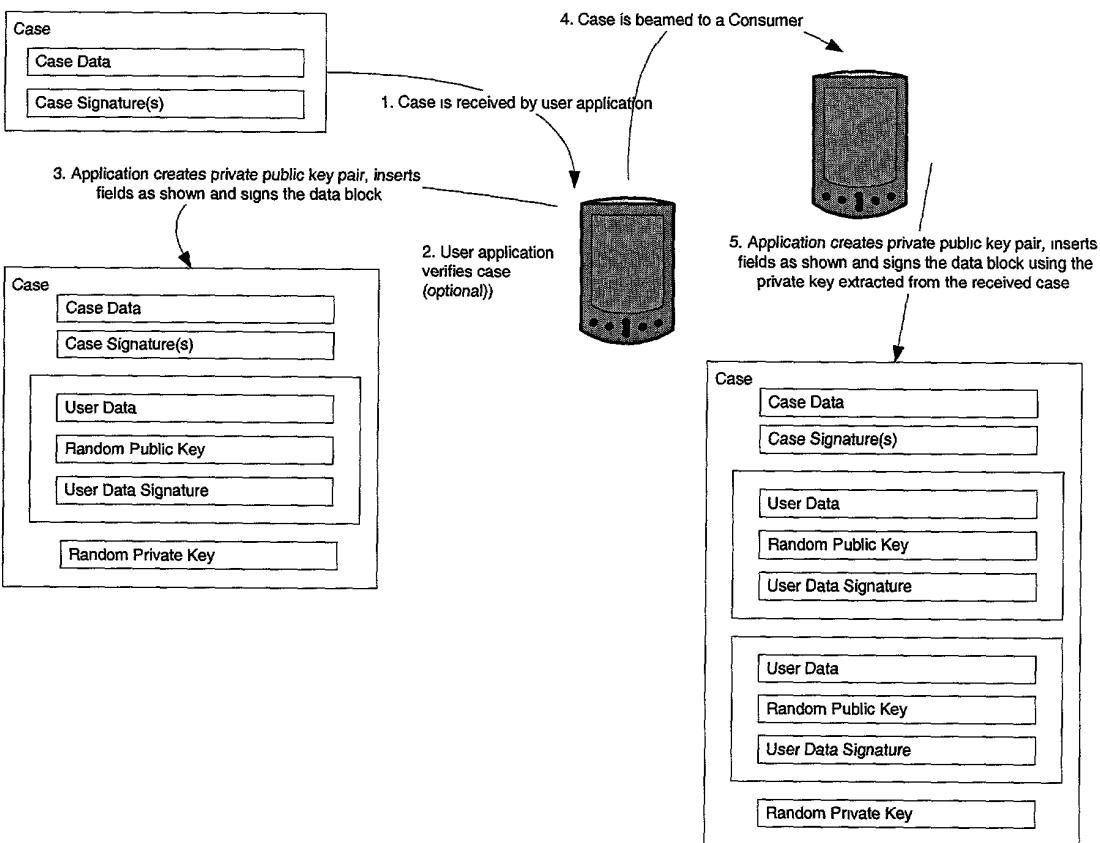


## FIGURE 15 - Pervasive Commerce Case Layout





**FIGURE 16 – Receiver Selected Key Exchange**

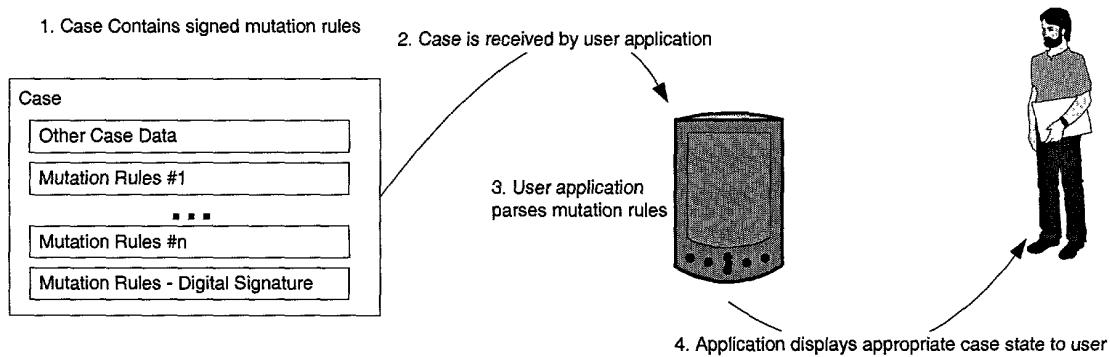


**FIGURE 17 – Passer Generated Key Exchange**

Digital Object

Object Description (text name and description of the contained digital object)
Object Type (image, video, music clip, music song, music album)
Object Encoding (jpeg, tiff, mpeg, mp3, midi, XrML, zip, pdf)
Object Size (total size of object in bytes)
Object (actual object data)
Digital Object Signature (ME)

**FIGURE 18 – DIGITAL OBJECT**



**FIGURE 19 – Trusted Case Mutation**

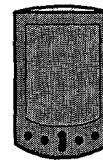
1. Case Contains fields defined as 'mutable'

Case
Other Case Data
Mutable Field #1
...
Mutable Field #n

2. Case is received by user application



5. Case gets passed



3. Application displays case to user



4. User updates mutable fields



6. Application displays case with updated fields

**FIGURE 20 – Untrusted Case Mutation**